a. classification of subject matter IPC 7 B60R21/01 G01S13/93

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-B60R-G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Χ	US 6 269 308 B1 (SHINMURA TOMOYUKI ET AL) 31 July 2001 (2001-07-31)	1,21-24
Α .	column 2, line 14 - column 3, line 25; figures	2,25-35
A	US 5 841 366 A (YAMAMOTO YASUNORI ET AL) 24 November 1998 (1998-11-24) column 1, line 56 - column 2, line 37; figures	1-21,35
Α	DE 199 54 536 A (BOSCH GMBH ROBERT) 17 May 2001 (2001-05-17) column 1, line 61 - column 3, line 36; figures	1,2,21, 35
	-/	

X Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 7 September 2004 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	Date of mailing of the international search report 17/09/2004 Authorized officer Daehnhardt , A

C.(Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Α	US 6 085 151 A (BRUCE MICHAEL P ET AL) 4 July 2000 (2000-07-04) column 4, line 11 - column 5, line 35; figures	1,2,21, 35		
Α	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08, 6 October 2000 (2000-10-06) & JP 2000 142321 A (FUJITSU TEN LTD), 23 May 2000 (2000-05-23) cited in the application abstract; figures	1,2,21, 35		
A A	US 5 552 986 A (KOBAYASHI MASAAKI ET AL) 3 September 1996 (1996-09-03) figures & JP 02 946995 B2 (NISSAN MOTOR) 13 September 1999 (1999-09-13) cited in the application	1,2,21, 35		
A .	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 07, 29 September 2000 (2000-09-29) & JP 2000 095130 A (TOYOTA MOTOR CORP), 4 April 2000 (2000-04-04) cited in the application abstract; figures	1,2,21, 35		
A	PATENT ABSTRACTS OF JAPAN vol. 0176, no. 97 (M-1532), 20 December 1993 (1993-12-20) & JP 5 238367 A (MAZDA MOTOR CORP), 17 September 1993 (1993-09-17) cited in the application abstract; figures	1,2,21,		

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1(first and third possibility), 2-24,35

Provide information about the condition of a detected object in front of a preceding vehicle.

2. claims: 1(second possibility),25-34

Obtain width-related information of each specific detected object.

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/009405

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons;
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/009405

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6269308	B1	31-07-2001	JP JP JP US US	2000062555 2000067398 2000067394 2001018641 2001016798	A A A1	29-02-2000 03-03-2000 03-03-2000 30-08-2001 23-08-2001
US 5841366	Α	24-11-1998	JP DE	9033651 19629252		07-02-1997 23-01-1997
DE 19954536	A	17-05-2001	DE FR JP US	19954536 2801129 2001189000 6653935	A1 A	17-05-2001 18-05-2001 10-07-2001 25-11-2003
US 6085151	Α	04-07-2000	CA EP JP WO	2274716 0954758 2002511922 9832030	A1 T	23-07-1998 10-11-1999 16-04-2002 23-07-1998
JP 2000142321	Α	23-05-2000	NONE			
US 5552986	Α	03-09-1996	JP JP DE	2946995 6286581 4411184	Α	13-09-1999 11-10-1994 06-10-1994
JP 2946995	B2	13-09-1999	JP DE US	6286581 4411184 5552986	A1	11-10-1994 06-10-1994 03-09-1996
JP 2000095130	Α	04-04-2000	NONE			
JP 5238367	Α	17-09-1993	JP	3230832	B2	19-11-2001